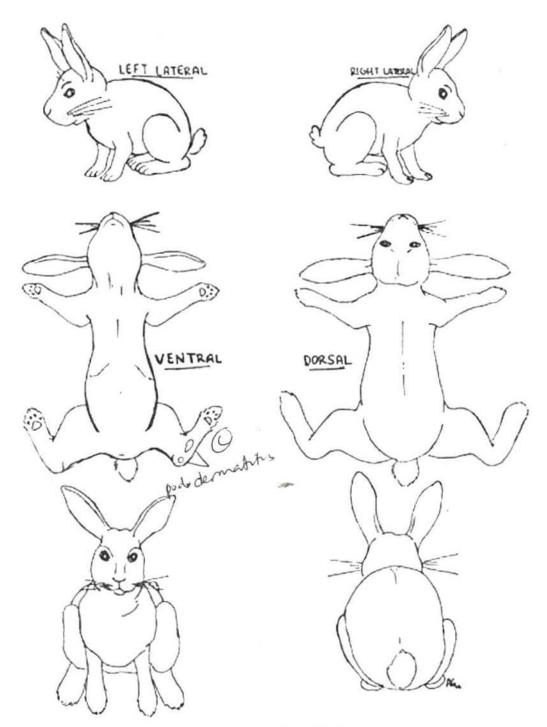
Peter Rabbit part 2



Maral Arima ID Inc., no. 420 Juniu Street Kaliua, HI 96734 909-262-9621

Peter

1

From: Sent: To:	Jarrell, Leslie Wednesday, September 28, 2016 1:52 PM
Cc: Subject:	RE: Peter rabbit- clipping some fur
	rong email a minute ago. Will let you know how it goes!
From: Sent: Wednesday, Septemb	per 28, 2016 1:51 PM
Subject: RE: Peter rabbit- c	Graff, Jaimie < Graff. Jaimie @epa.gov>
Sounds good, He has been	looking more like Johnny Depp on the Pirates of the Caribbean!!!
From: Jarrell, Leslie Sent: Wednesday, Septemb	per 28, 2016 11:54 AM
Subject: Peter rabbit- clipp	Graff, Jaimie < Graff. Jaimie @epa.gov > ing some fur
and I tried to clip some material recommend that	een steady, and he has been eating well. However he is not the best at grooming. Its today. He is very clean on the "top" and has some fur he can't groom well on belly/ tail. and I clip him with our clippers. Would that be OK? He has some areas on his abdomenten under his neck/ dewlap that I'd like to address. I don't think he will need any isoflurane we may.
Please let us know what yo	u think?
Thanks, Leslie	

Jarrell, Leslie			o <del>r</del> t	(pete)
From: Sent: To: Cc:	Jarrell, Leslie Wednesday, September	er 28. 2016 1:50 PM	Grafi	f, Jaimie;
Subject:	RE: Rabbit 30- update			
Thanks! Hopefully he will under his chin though. Wo Thanks.		He's had some mats clipp nim.	ed before. I'm not	sure about the ones
From: Sent: Wednesday, Septem To: Jarrell, Leslie < Jarrell, L	DO:	Graff, Ja	aimie <graff.jaimie< td=""><th>@epa.gov&gt;;</th></graff.jaimie<>	@epa.gov>;
Subject: RE: Rabbit 30- up	date			
sure				
From: Jarrell, Leslie Sent: Wednesday, Septem	ber 28, 2016 11:58 AM			
Subject: Rabbit 30- update		Graff, Ja	aimie < <u>Graff.Jaimie</u>	@epa.gov>;
H Baby Girl, Rabbit 30, is at to for her.  and I exame exam, but did not check her root abscess. We can't as:	nined her today. She is a er teeth. We are increas	bright, social and active raing hay so that should help	abbit. I didn't find a	any obvious issues on
We will keep an eye on he few weeks. Would that be		ld like to pull blood for CB0	C/Chem as well, sor	netime during the next
Thanks, Leslie				

From: Sent: To:	Jarrell, Leslie Wednesday, September 28, 2016 1:52 PM
Cc: Subject:	RE: Peter rabbit- clipping some fur
Thanks! Sorry replied to w thanks	rong email a minute ago. Will let you know how it goes!
From: Sent: Wednesday, September To: Jarrell, Leslie < Jarrell. Leslie	The second control of
Subject: RE: Peter rabbit- o	Graff, Jaimie <graff.jaimie@epa.gov></graff.jaimie@epa.gov>
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From: Jarrell, Leslie	20. 2016 11.54 AM
Sent: Wednesday, Septembro:	Graff, Jaimie <graff.jaimie@epa.gov></graff.jaimie@epa.gov>
Subject: Peter rabbit- clipp	
and I tried to clip some marrecommend that	een steady, and he has been eating well. However he is not the best at grooming.  Its today. He is very clean on the "top" and has some fur he can't groom well on belly/ tail.  and I clip him with our clippers. Would that be OK? He has some areas on his abdomen en under his neck/ dewlap that I'd like to address. I don't think he will need any isoflurane we may.
Please let us know what yo Thanks,	u think?
Leslie	

From:	Jarrell, Leslie
Sent:	Wednesday, September 28, 2016 11:54 AM
To:	
Cc:	Graff, Jaimie
Subject:	Peter rabbit- clipping some fur
Hi	
Peter rabbit's weigh	ght has been steady, and he has been eating well. However he is not the best at grooming.
	some mats today. He is very clean on the "top" and has some fur he can't groom well on belly/ tail.
recommend that	
	s and even under his neck/ dewlap that I'd like to address. I don't think he will need any isoflurane
anesthesia, but po	tentially we may.
Please let us know	what you think?
Thanks,	
Leslie	
Lesile	



From: Jarrell, Leslie

Sent: Tuesday, July 19, 2016 11:19 AM

To: Cc:

Graff, Jaimie:

Subject:

RE: Rabbit Exams (6)- part 2

Follow Up Flag: Flag Status:

Follow up Flagged

and I examined rabbits on 5/2/16 (Leo, Baby Girl and Leo) and 5/24/16 (Dixie, Oopsie and Daisy). I did not pursue oral exams.

- Rabbit 105 Trixie DOB 5/7/14. Did well for exam. BCS 2.5 on a scale of 1 to 5, where 2.5 is ideal. Weight 4.86 kg. Weight in 2015 was 4.68 kg.
- Rabbit 102, Leo, DOB 5/7/14, Did well for exam. BCS 2.5 on scale of 1 to 5, where 2.5 is ideal. Weight 4.36 kg. Weight in 2015 was 4.20 kg.
- Rabbit 30, Baby Girl, DOB 2/24/08. Did very well for exam. Weight 4.18 kg. Monitor.
  - Weight 2/1/13= 4.46 kg
  - Weight 3/25/15= 4.1 kg
  - So she has not lost weight since last year. However, will need to keep an eye on her.
- Rabbit 106, Dixie, DOB 5/7/14. Did well for exam. Weight 4.04 kg. Weight last year was 3.94 kg.
- Rabbit 107, Oopsie, Male intact rabbit, DOB 9/2/15, Weight 3.84 kg. Did well for exam. Slight mats on hind feet, watch for issues.
- Rabbit 108, Daisy, Female intact rabbit, DOB 9/2/15. Weight 3.30 kg. Very nervous, unable to get thorough exam due to temperament. Continue with socialization.

would like to post the rabbits' weight history in the suite or ro	oom. has made a chart
---	-----------------------

Thanks, Leslie

From: Jarrell, Leslie

Sent: Friday, March 25, 2016 12:44 PM

Graff, Jaimie < Graff. Jaimie @epa.gov>

Subject: Rabbit Exams (4) and UV light - part 1

and I examined 4 of the rabbits on 3/9/16. The rabbits did pretty well with exams, but I wasn't able to do oral exams on them. Hopefully the younger ones will eventually tolerate it. I will follow up with the other 6 rabbits' exams over the next month.

As a caveat- although dental exams using otoscope are useful at finding gross pathology of the teeth, current standards for dental care in rabbits involve use of skull x-rays. Earlier dental changes can be found on x-rays than by visual exam, and intervention can be started to delay clinical consequences due to pain and weight loss.

• Rabbit #24 Thumper DOB 2/25/08. Did well for exam. BCS 1.75 on a scale of 1 to 5, where 2.5 is ideal. This is a little lower than last year. Increased the pellets for Thumper last year, but Thumper is at 3.42 kg. He was

around 3.44 kg last year this time. However at least he has not lost any significant weight. I would like to see if we can get his body condition up a little. This makes me concerned about his teeth. He is 8 years old.

- Rabbit #25 Peter DOB 2/25/08. Did well with exam but didn't attempt to examine teeth. He had a number of
  mats which we have started to clip. I am thinking that he may not be able to groom as well as
  previously. Peter's weight was 3.96 kg. About a year ago, he was at 4.38 kg. This is significant weight loss. His
  body condition score is around 1.75 out of 5, where 2.5 is ideal and 1 is emaciated. His is 8 years old now.
  - We have access to CBC/ Chemistry panels for evaluating how his kidneys/ liver etc are doing, which I
    may like to pursue this year if that is OK with you. Most likely, I would think his teeth are an issue, but
    we don't have radiographs to evaluate him.
  - We will need to keep a close eye on his weight this year. Also keep working on his coat.
- Rabbit #101 Tex. DOB 5/17/14. Did well with exam. Had some mats, which we were able to clip. I'm not sure
  why he isn't grooming as well as expected. Plan to work on getting him to tolerate oral exam. And possibly
  more clipping. Weight 4.46 kg, around 1 year ago was 4.14 kg. Good weight.
- Rabbit #104 Jasper- DOB 5/17/14. Very nervous. Still did not tolerate exam very well. Feet well furred. Weight 4.68 kg, around 1 year ago was 4.14 kg. Good weight. Work on tolerating more handling.

Note; Last year I emailed about research on vitamin D in rabbits. This is the abstract from 2014 off PUBMED. Lab rabbits in particular don't get UV light exposure, and these rabbits are older than most NZW are usually kept. I would like to look into possibilities for checking their vitamin D levels over time, and potentially getting some kind of full spectrum lighting. Low levels of vitamin D have had implications in rabbits for; bone issues such as arthritis, and also dental issues. We have seen some level of these issues in a number of rabbits.

Thanks, Leslie

Am J Vet Res. 2014 Apr;75(4):380-4. doi: 10.2460/ajvr.75.4.380.

## Effects of ultraviolet radiation produced from artificial lights on serum 25hydroxyvitamin D concentration in captive domestic rabbits (Oryctolagus cuniculi).

Emerson JA1, Whittington JK, Allender MC, Mitchell MA.

## Author information

 Department of Veterinary Clinical Sciences, College of Veterinary Medicine, University of Illinois, Urbana, IL 61802.

### Abstract

## **OBJECTIVE:**

To determine the effects of UVB radiation produced by artificial lights on serum 25-hydroxyvitamin D concentrations in domestic rabbits (Oryctolagus cuniculi).

#### ANIMALS:

9 juvenile domestic rabbits.

#### PROCEDURES:

After an acclimation period, rabbits were anesthetized with isoflurane, and an initial blood sample was collected for determination of serum 25-hydroxyvitamin D concentration. Rabbits were randomly assigned to receive 12-hour exposure to UVB radiation produced by 2 compact fluorescent lights daily (n = 5) or no UVB supplementation (4) commencing on day 1. The UVB radiation emitted into the cage was measured at 9 points approximately 34 cm from the surface of the UVB light sources (representing the position of the rabbits in the cage) after 10 hours of exposure on days 1, 8, and 14. On day 14, another blood sample was collected from anesthetized rabbits for determination of serum 25-hydroxyvitamin D concentration.

#### RESULTS:

The UVB radiation level was 8.3 to 58.1  $\mu$ W/cm² for the exposed rabbits and consistently < 0.001  $\mu$ W/cm² for the control rabbits. Mean  $\pm$  SD serum 25-hydroxyvitamin D concentrations in the rabbits that were or were not provided supplemental UVB radiation for 14 days differed significantly (66.4  $\pm$  14.3 nmol/L and 31.7  $\pm$  9.9 nmol/L, respectively).

### CONCLUSIONS AND CLINICAL RELEVANCE:

Exposure to UVB radiation produced by artificial light significantly increased serum 25-hydroxyvitamin D concentration in juvenile rabbits. Because vitamin D is an essential hormone in vertebrates, these findings suggested that the provision of supplemental UVB radiation to captive rabbits may be important.

From:

Jarrell, Leslie

Sent:

Friday March 25 2016 12:44 DM

To:

Cc:

Graff, Jaimie

Subject:

Rabbit Exams (4) and UV light - part 1

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- 5	MALL MAI	MMAL ATIEN	T EXAMINATION E	PORT CARD
1. Coat/Fur & Skin Appears normal Scaly Injection Matter Heliy  2. Eyes Appears Normal Inflamed Lyclid Deformities		TESTS NEEDED: Annual Blood Work Urinalysis Fecal Examination Spay / Neuter Microchip Skin Scraping Fungal Culture Ear Cytology	RECOMMENDATIONS: Cage Change: Bedding Change: Change Ty Diet Change: Please see hande	Tech Initials:  Temp:  pe  Weight: 3.9619
3. Ears  Spears Norma  Ditty  Lumor: L. R  Excessive Hair	Inflamed: I. R Mites Infected Painful	Water Intake: normal Coughing: No / Y	I / increased / decreased	normal /increased/decreased normal / abnormal normal / abnormal
4. Nose Appears Norm	Nasal Discharge	Historical Issues/ Medi	cations:	
5. Mouth, Teeth, G Appears Normal Lartar Buildup Overgrown Incisors Overgrown Molars Overgrown roots	Broken Teeth Tumors	Current Diet:		
6. Legs & Paws Appears Normal Nail Problems Other	Joint Problems Lameness	Examination:	ats	
7. Heart Operars Norma Slow Murmur	es/gallap	HR	gally 200	
8. Lungs  Abnormal Sound  Rapid Respiration	Coughing Congestion Dyspnea	W	= 3.96 kg	
9. Abdomen Appears Normal I plarged Organs Fluid	Abnormal Mass Tense/Painful Swollen		r lyr ago	
10. Gastrointestinal Appear Normal Stasis Impaction Anorexia	1 System Abnormal Feces Parasites		& watch caref	illy &
Appears Tormal Mammary Tumors Abnormal Testicles	em Abnormal Urination Genital Discharge			
12. Weight Normal Heavy By:	Ohese BCS	Boctor: Detor's name	ic, DVM Need:	In:Days
DIAGNOSIS OR PE	ROBLEMS	PROGNOSIS	DIFFERENTIAL DIAGNOSIS	PLAN
Thin. Groomin	~9	watch	unable to get dental exam at the temperam	ent monitor
Today's Date: Pet's Name:	31811b	Chart #:Last Name:	Species/Breed: Rabbut N	JEW DOB: : White Sex: MI
	#	+25		



From: Sent: To: Cc: Subject:	Jarrell, Leslie Thursday, February 25, 2016 2:08 PM  Graff, Jaimie RE: Rabbit exams	
Thank you! Leslie		
From: Sent: Thursday, Februar To: Jarrell, Leslie < Jarrell Cc: Subject: RE: Rabbit exam	.Leslie@epa.gov>; Graff, Jaimie <graff.jaimie@epa.gov></graff.jaimie@epa.gov>	
That's fine		
From: Jarrell, Leslie Sent: Thursday, Februar To: Cc: Subject: Rabbit exams	graff, Jaimie < Graff. Jaimie @epa.gov>	
	rabbit exams. I've tentatively scheduled March 8 at 1- 2 pm, and March 9 from 9:30- 10:3 - 10:30 AM for their annual exams. Would that work ok for your schedules?	0 AV

Thanks, Leslie

Patient Information	Alerts	Wellness Exam
PI Patient H25 Peter	- temperament	Semiannual
Sex MI Breed NEW Color White DOB 2125 08		

Master Problem List		
Exams or Problem/Diagnoses	Open	Closed
1. Temperament makes exam disposit	10/30/12	
2. Unable to examine teeth periodically	10/30/12	
3. Left some feed in hoppen	2/04/13	()
4. Callus (1) 1 (8) hind feet	8/29/13	
5. cont usualize testicles well alt very jumps	8/29/13	
7 thin, Wt loss court see teeth ! WATCH	8129/13	
7. thin, WI loss. court see teeth! WATCH	3)8114	
& Pododematite O hand 1 Rhind	10/6116	
Entranized 1/22/16, chronic podo dematitis		A
I.	1	
		-
	TO CONTRACT OF THE PERSON NAMED OF THE PERSON	CONTRACTOR CONTRACTOR OF CHARACTER

	Medication History		
Drug	Signalment	Start	Stop
	3		